

# Comparisons of Job Characteristics

**Focus Occupation:** [Mine Cutting and Channeling Machine Operators \(47-5042\)](#)

**Associated Occupation:** [Explosives Workers, Ordnance Handling Experts, and Blasters \(47-5031\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

## Knowledge

Similarity of Focus Occupation to Associated Occupation: 56

**Focus Occupation:** Mine Cutting and Channeling Machine Operators (47-5042)

**Associated Occupation:** Explosives Workers, Ordnance Handling Experts, and Blasters (47-5031)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Public Safety and Security	6.9	15.7	6.2	<<	Extensive education and/or training may be required
Law and Government	5.9	13.5	6.1	<<	Extensive education and/or training may be required
Mathematics	9.2	12.7	4.3	<<	Extensive education and/or training may be required
Engineering and Technology	5.7	11.1	4.8	<<	Extensive education and/or training may be required
Production and Processing	6.0	9.6	4.3	<<	Extensive education and/or training may be required
Transportation	4.6	9.6	5.2	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Skills

Similarity of Focus Occupation to Associated Occupation: 70

**Focus Occupation:** Mine Cutting and Channeling Machine Operators (47-5042)

**Associated Occupation:** Explosives Workers, Ordnance Handling Experts, and Blasters (47-5031)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Monitoring	9.9	11.9	9.1	<<	Extensive development of skills in this area may be required
Operation Monitoring	6.6	10.3	11.5	>	Skill level is likely sufficient
Operation and Control	5.4	10.0	10.0	0	Current skill level may be sufficient
Troubleshooting	4.5	7.5	7.5	0	Current skill level may be sufficient

Equipment Selection	3.3	6.1	7.2	>	Skill level is likely sufficient
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The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 74			
Focus Occupation: Mine Cutting and Channeling Machine Operators (47-5042) Associated Occupation: Explosives Workers, Ordnance Handling Experts, and Blasters (47-5031)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Manual Dexterity	6.5	13.9	10.0	<<	Extensive improvement in abilities may be required
Near Vision	11.1	13.9	9.2	<<	Extensive improvement in abilities may be required
Information Ordering	9.9	13.2	8.5	<<	Extensive improvement in abilities may be required
Reaction Time	4.8	12.3	12.1	0	Current ability level may be sufficient
Finger Dexterity	7.6	11.6	8.0	<<	Extensive improvement in abilities may be required
Visual Color Discrimination	6.4	11.4	7.2	<<	Extensive improvement in abilities may be required
Depth Perception	5.3	9.7	11.4	>	Current ability level is likely sufficient
Glare Sensitivity	2.6	5.8	6.9	>	Current ability level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 97
<b>Focus Occupation: Mine Cutting and Channeling Machine Operators (47-5042)</b> <b>Associated Occupation: Explosives Workers, Ordnance Handling Experts, and Blasters (47-5031)</b>		
Work Activities	Exclusivity of Activity	
Assemble detonation units for construction or extraction work	89	
Charge blasting holes with explosives	82	
Determine amount or kind of explosive needed to complete job	85	
Determine locations, angles, and depths of blast holes	92	
Detonate blasting charges for construction or extraction work	89	
Drill blasting holes	89	
Use hand or power tools	2	
Use measuring devices in construction or extraction work	41	

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Tools and Technologies that Both Occupations Have in Common

Similarity of Focus  
Occupation to Associated  
Occupation: n/a

**Focus Occupation: Mine Cutting and Channeling Machine Operators (47-5042)**

**Associated Occupation: Explosives Workers, Ordnance Handling Experts, and Blasters (47-5031)**

### Tools and Technologies

### Exclusivity

Tools and technology data is unavailable for one or both occupations.

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.